DOCUMENT RESUME

ED 211 618 UD 021 788

TITLE Toledo Public Schools: School Utilization Study, 1980-81 School Year. 2nd Year Study. Junior and Senior High School Buildings.
INSTITUTION Toledo Public Schools, Ohio.
PUB DATE May 81
NOTE 70p.; For related documents, see UD 021 789-790.

EDRS PRICE MF01/PC03 Plus Postage.
DESCRIPTORS Compliance (Legal); *Educational Facilities; Educational Quality; Enrollment; Environmental Standards; Evaluation Criteria; Facility Case Studies; *Facility Improvement; Facility Utilization Research; Operating Expenses; Secondary Education; *Secondary Schools; Tables (Data)
IDENTIFIERS Toledo Public Schools OH

ABSTRACT

This facilities utilization study resulted in the ranking of Toledo, Ohio, public secondary schools during the 1980-81 school year in eight areas: educational adequacy, operating costs, current and projected enrollment, alternate use, modernization potential, environment, building capacity, and traffic and safety. Individual weighting factors within each category are analyzed, and information is presented in the form of graphs, tables and charts. (JCD)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

UD 021 788

ED211618

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

✓ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY
Russell A. Working
Toledo Public Schools
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

TOLEDO PUBLIC SCHOOLS
SCHOOL UTILIZATION STUDY
1980-81 SCHOOL YEAR
2nd YEAR STUDY

JUNIOR AND SENIOR HIGH SCHOOL BUILDINGS

Toledo Public Schools
School Utilization Study

Submitted to:
Hugh T. Caumartin
Superintendent
Toledo Public Schools
May, 1981

TOLEDO PUBLIC SCHOOLS

SCHOOL UTILIZATION STUDY

SECOND YEAR STUDY

During the 1979-1980 school year, as a result of recommendations made to the Toledo Board of Education in the CCEG report, and due to a decline in student enrollment, the Toledo Public School system conducted a school utilization study.

A building utilization instrument was created and this survey tool allowed the ranking of schools based on the total score achieved in eight general categories. A list of the categories and a brief explanation of each follows:

	CATEGORY	POINTS
1.	Educational Adequacy	20
2.	Operating Costs	20
3.	Enrollment, Current and Projected	20
4.	Environment	10
5.	Alternate Use	10
6.	Modernization Potential	8
7.	Capacity	8
8.	Traffic and Safety	4
	TOTAL	100

1. EDUCATIONAL ADEQUACY

This portion assessed the ability of the facility to meet the requirements of a good instructional program. The language used is taken primarily from the Ohio Minimum Standards for Schools.

2. OPERATION COSTS

This category is an overview of overhead per student including support personnel and utilities. Also overhead per square foot including support costs. A utility factor was also included in this category.

3. ENROLLMENT, CURRENT AND PROJECTED

This item deals with the relationship of enrollment to capacity. Figures used are both current and projected enrollment. Capacity was determined by multiplying the number of classrooms in a building by 30. (Projections were based on a school's retention rate, birthrate and cohort survival technique for the past 3 years.

4. ENVIRONMENTAL IMPACT

This section evaluates the environment in the area adjacent to the school. Factors rated included noise pollution, play area, lighting and security, condition of adjacent properties and flooding.

UD021788

5. ALTERNATE USE

This portion analyzes the possibility of non-school use for the present school facilities. This included a study of location, zoning and the degree of interest in the building and/or site expressed by others.

6. MODERNIZATION POTENTIAL

This is a rating of schools based on modernization potential. Factors considered involve: Age and general condition of the structure, renovation complexity and code compliance, and an evaluation of the school's current access for the physically handicapped.

7. CAPACITY

Credit is awarded if a school meets or exceeds the minimum size generally recommended.

8. TRAFFIC AND SAFETY

This section rates schools based on traffic and other hazards, and the degree to which those hazards are controlled. Also included is an evaluation of those factors which make a building safe.

The School Utilization study resulted in the closing of eight elementary buildings, one junior high school and one high school. The reorganization of two elementary buildings to junior high schools was also accomplished.

The School Utilization survey instrument, with slight modification was used in this, the second year utilization study.

As in the original, the second utilization study involved scoring each building in the eight areas as previously discussed. This was done after all information and data gathered in the first study were reevaluated and brought up-to-date.

Of these eight areas, only item #2, Operating Costs and item #3, Enrollment were substantially affected by the Junior High Reorganization and the closings.

Item #2, Operating Costs, was made current using 1980 operating costs and the October, 1980 enrollment figures.

Item #3, Enrollment, was brought up-to-date using October, 1980 figures and a three year projection based on a school's retention rate, birthrate and the cohort survival technique for the past three years.

The next task in the second year study was meetings with each of the building principals. These meetings entailed each principal reviewing and evaluating the information which concerned his/her building. They then supplied information necessary to complete the Educational Adequacy and Enrollment portions of the survey and participated in the final scoring of his/her school.

Also noteworthy, is the fact that the survey instrument made provisions for indicating any special circumstances that might presently affect or soon affect a specific building. This information was provided by building principals, the business department, the system's engineers, and the Lucas County Planning Commission. The following are examples of circumstances that were noted:

> Present and future housing growth and the need for additional major expenditures for such items as boilers, windows, roofs, flood control, plumbing and electrical work.

The following is the ranking of each school according to their total score. Also, detailed graphs and charts of all gathered information for elementary, junior high and senior high buildings:

5/81
jv

ALL SCHOOLS

Chase	85.2	Marshall	70.0	Oakdale	59.2
Newbury	82.9	Ottawa River	68.5	Stewart	57.2
Lagrange	82.0	Navarre	68.3	Birmingham	56.7
Glenwood	80.9	Garfield	68.2	McKinley	56.6
Elmhurst	80.5	Rogers	67.8	Harvard	56.3
Hawkins	80.2	Leverette	67.2	Heather Downs	56.2
Burroughs	78.4	East Side Central	66.2	Raymer	54.8
Reynolds	77.6	Waite	66.1	Franklin	53.9
Edgewater	76.9	East Toledo	65.8	Sherman	53.6
Spring	76.6	Arlington	65.5	Beverly	53.1
DeVeaux	74.5	Fall-Meyer	65.0	Macomber-Whitney	52.9
Byrnedale	74.0	Start	64.6	DeVilbiss	52.2
Keyser	73.9	King	63.0	Jefferson Center	52.0
Longfellow	73.4	Woodward	61.5	Gunckel	51.9
Larchmont	73.0	Whittier	60.6	Robinson	51.6
Mt. Vernon	72.9	Glendale-Feilbach	60.5	Cherry	51.5
Old West End	72.3	Pickett	60.4	Libbey	51.3
Fulton	72.2	Westfield	60.3	Lincoln	50.4
Bowsher	72.1	McTigue	60.2	Scott	46.6
Old Orchard	72.0	Crossgates	60.1	Washington	45.6
Riverside	71.0	Walbridge	59.6	Martin	37.8
Nathan Hale	70.4	Jones	59.4		

ELEMENTARY SCHOOLS

Chase	85.2	Riverside	71.0	Oakdale	59.2
Newbury	82.9	Nathan Hale	70.4	Stewart	57.2
Lagrange	82.0	Marshall	70.0	Birmingham	56.7
Glenwood	80.9	Ottawa River	68.5	McKinley	56.6
Elmhurst	80.5	Navarre	68.3	Harvard	56.3
Hawkins	80.2	Garfield	68.2	Heather Downs	56.2
Burroughs	78.4	East Side Central	66.2	Raymer	54.8
Reynolds	77.6	Arlington	65.5	Franklin	53.9
Edgewater	76.9	Fall-Meyer	65.0	Sherman	53.6
Spring	76.6	King	63.0	Beverly	53.1
Keyser	73.9	Whittier	60.6	Gunckel	51.9
Longfellow	73.4	Glendale-Feilbach	60.5	Cherry	51.5
Larchmont	73.0	Pickett	60.4	Lincoln	50.4
Mt. Vernon	72.9	Westfield	60.3	Washington	45.6
Fulton	72.2	Crossgates	60.1	Martin	37.8
Old Orchard	72.0	Walbridge	59.6		

JUNIOR HIGH SCHOOLS

DeVeaux Jr. High	74.5
Byrnedale Jr. High	74.0
Old West End Jr. High	72.3
Leverette Jr. High	67.2
East Toledo Jr. High	65.8
McTigue Jr. High	60.2
Jones Jr. High	59.4
Robinson Jr. High	51.6

SENIOR HIGH SCHOOLS

Bowsher High School	72.1
Rogers High School	67.8
Waite High School	66.1
Start High School	64.6
Woodward High School	61.5
Macomber-Whitney High School	52.9
DeVilbiss High School	52.2
Jefferson Center	52.0
Libbey	51.3
Scott High School	46.6

SCHOOL RANKINGS BY TOTALING MODERNIZATION POTENTIAL, ENROLLMENT, AND OPERING COST

The following school rankings are based on a total of three categories: Modernization Potential, Enrollment, and Operating Cost. These rankings were done due to information gained from Toledo Public School's 1979 Needs Assessment. Those surveyed indicated that the above three items were the most important factors to consider when studying possible school closures.

Elementary

Lagrange	39.2	Ottawa River	26.4	Sherman	14.0
Newbury	38.2	East Side Central	25.4	Pickett	13.4
Chase	36.8	Walbridge	25.0	Heather Downs	13.0
Glenwood	36.8	Navarre	25.0	Lincoln	13.0
Reynolds	35.4	Old Orchard	24.8	Franklin	12.2
Edgewater	33.0	Westfield	23.8	Cherry	11.8
Elmhurst	31.4	Marshall	23.0	Washington	11.8
Hawkins	30.6	Larchmont	22.2	Raymer	11.0
Keyser	30.6	Garfield	19.0	Birmingham	10.6
Spring	30.2	Whittier	17.8	Stewart	10.2
Mt. Vernon	29.2	Fall-Meyer	17.8	Glendale-Feilbach	9.6
Riverside	28.0	Crossgates	17.2	Martin	9.2
Longfellow	27.0	Arlington	17.0	Gunckel	8.2
Nathan Hale	27.0	Oakdale	15.0	Harvard	8.0
Burroughs	26.8	McKinley	14.2	Beverly	6.4
Fulton	26.6	King	14.2		

Jr. High

DeVeaux	34.2
Byrnedale	28.0
Leverette	25.6
Old West End	24.8
East Toledo	18.0
McTigue	15.4
Jones	14.4
Robinson	9.8

High School

Bowsher	27.8
Rogers	23.4
Waite	18.4
Woodward	17.2
Start	16.2
Macomber-Whitney	16.2
Jefferson Center	13.8
DeVilbiss	10.6
Libbey	9.4
Scott	4.2

ENROLLMENT PROJECTIONS

JR. HIGH SCHOOLS	1981-1982	1982-1983	1983-1984
Byrnedale	950	930	921
DeVeaux	1340		
East Toledo	965	941	930
Jones	710	686	671
Leverette	830	822	825
McTigue	925	896	879
Old West End	700	681	686
Robinson	411	399	398

HIGH SCHOOLS			
Bowsher	1792	1742	1684
DeVilbiss	1120	1020	942
Jefferson Center			
Libbey	1168	1038	919
Macomber-Whitney	1340	1340	1330
Rogers	1705	1630	1560
Scott	1234	1083	956
Start	1470	1274	1110
Waite	1680	1632	1577
Woodward	1750	1576	1426

JUNIOR HIGH AND HIGH SCHOOLS

Because building capacity is determined by multiplying the number of classrooms by thirty (30), the results of the enrollment to capacity section, Item #3 Enrollment, Current and Projected, may be misleading.

This is due to the fact that many of our schools have a number of special classes that have mandated class size much lower than 25 or 30.

The following is a sampling of the special classes involved:

Special Classes	Maximum Size
EMR - Educable Mentally Retarded	18
LD - Learning Disability	10
LD - Resource Room	8
SB - Severe Behaviorally Handicapped	6
HI - Hearing Impaired	6
VI - Vision Impaired	6

In addition to Special Education programs, many of our buildings also have DPPF and ESAA programs in the area of Supplemental and Remedial Reading, Extended Day Kindergartens and Remedial Math.

All these programs require space and credit a school with no additional enrollment.

These are just a few of the small class size programs that use a full size classroom. Because of this, a building may be utilizing every space even though its enrollment might be much less than capacity.

Schools affected are:

	SECTIONS		
JUNIOR HIGH	Spec. Ed.	DPPF ESAA	Teachers
Byrnedale	5	12	5
DeVeaux	7		5
East Toledo	10	12	12
Jones	8	4	12
Leverette	3	6	5
McTigue	20	12	14
Old West End		30	5
Robinson	8	12	10
HIGH SCHOOL			
Bowsher	13		4
DeVilbiss	64		15
Libbey	20	15	8.4
Rogers	5		1
Scott	22	10	8
Start	28		6.7
Waite	30	3	11
Woodward	33	13	10

ITEM	WEIGHTING FACTOR	SCHOOL _____
1. Educational adequacy	20%	_____
2. Operating costs	20%	_____
3. Enrollment, current and projected	20%	_____
4. Environment	10%	_____
5. Alternate use	10%	_____
6. Modernization Potential	8%	_____
7. Capacity	8%	_____
8. Traffic and Safety	4%	_____
TOTALS	100%	

Educational Adequacy	Compliance	Qualified Compliance	Non Compliance
1. The building is so located, constructed and equipped as to meet the needs of the educational program and to safeguard the health and safety of the pupils.	20	10	0
2. The sanitary facilities, lighting, water supply and heating and ventilation are as prescribed by appropriate governmental agencies.	20	10	0
3. The building has sufficient number of classrooms of proper size to meet the needs of the enrollment and also the educational program.	20	10	0
4. The building has adequate office and other required related space which will provide for efficient administration.	20	10	0
5. The building has adequate facilities for P.E., health care, food service, library/media center and other required special services.	20	10	0
Total per cent --- 20% Each factor worth --- 20%			

OPERATION COSTS - 20%

RATING OF SCHOOLS BASED ON OPERATING COSTS

	MORE THAN 25% ABOVE	WITHIN 10-25% ABOVE AVE.	AVERAGE ± 10%	WITHIN 10-25% BELOW AVE.	MORE THAN 25% BELOW
1. Overhead per student including building support personnel, utilities, expendable supplies related to support services.	0	10	20	30	40
2. Overhead per square foot including support costs.	0	10	20	30	40
	OIL	ELEC	ELEC/GAS	GAS	COAL
3. Utility factor relating to cost and availability of fuel used to heat/cool building.	2	8	10	12	20
TOTAL	2	28	50	72	100

Lower the number, more the cost.

Total per cent 20%.

Total per cent 100%

ENROLLMENT 20%

	90-100%	70-90%	Below 70%
Present enrollment to capacity	50	25	0
Projected enrollment to capacity	50	25	0
	100	50	0

TOTAL PER CENT 20

EACH FACTOR WORTH 50%

ENVIRONMENTAL IMPACT (10%)

RATING OF SCHOOLS BASED ON ENVIRONMENTAL IMPACT

FACTOR	POOR	AVERAGE	GOOD
1. Noise Pollution	0	8	15
2. Open Space (Passive Use)	5	10	20
3. Exterior Lighting	5	7	10
4. Site Security	5	7	10
5. Condition of Adjacent Properties	0	8	20
6. Flooding	0	5	10
7. Play Area	5	10	15
	20	55	100

Higher the number --- better the environment

Total per cent --- 10%

Total of factors --- 100%

ALTERNATIVE USES - 10%

1. Expressed Interest	HIGH - 0	MODERATE - 20	LOW - 35
2. Zoning/Possibility or Re-zoning	GOOD - 10	FAIR - 25	POOR - 50
3. Location a. Access to Transportation	GOOD - 0	MODERATE - 3	POOR - 7
b. General Considerations	GOOD - 0	MODERATE - 4	POOR - 8
TOTAL	10	52	100

NOTES:

1. Expressed Interest - this factor has to do with whether or not a degree of interest has been expressed by outside parties in the particular property. If it is assessed that a relatively high degree of interest has been expressed in the property, an indication that an alternative use for the property can easily be found, then 0 points would be awarded. If a moderate of interest has been expressed, than 20 points would be awarded, etc.

2. The Zoning factor or the possibility of zoning has to do with whether or not the property is zoned for uses other than school uses or if the property is assessed to have a high possibility of re-zoning. Some alternative uses may not require re-zoning, if this is the case, then the zoning factor should be considered at the same time factor #1 expressed interest is considered.

MODERNIZATION POTENTIAL (8%)

RATING OF SCHOOLS BASED ON MODERNIZATION POTENTIAL

FACTOR	POOR	AVERAGE	GOOD
1. Age of Structure	0	5	10
2. General Condition of Structure	0	10	20
3. Usage of Structure	0	5	10
4. Renovation Complexity	0	10	20
5. Code Compliance	0	13	25
6. Access for Handicapped	0	10	15
TOTAL	0	53	100

Higher the number --- greater the potential

Total per cent --- 8%

Total of factors --- 100%

CAPACITY - (8%)

- Elementary — 300 students considered minimum
- Junior High — 500 students considered minimum
- Senior High — 1,200 students considered minimum

If schools meet capacity or surpass get 8%.

TRAFFIC AND SAFETY (4%)

RATING OF SCHOOLS BASED ON TRAFFIC & SAFETY CONSIDERATION

FACTOR	POOR	AVERAGE	GOOD
EXTERIOR			
1. Traffic Density	0	6	12
2. Traffic Patterns	0	3	6
3. Traffic Controls	0	6	12
4. Sidewalks	0	6	12
5. Parking	0	6	12
6. Other Hazards (Railroads, Ponds, Rivers, etc.)	0	3	6
INTERIOR			
1. Fire Alarm	0	6	12
2. Ingress - Egress	0	5	10
3. Structural Hazards (Buckled Floors, Hanging Pipes, etc.)	0	4	8
4. Code Compliance	0	5	10
TOTAL	0	50	100

Higher the number --- better the condition

Total per cent --- 4%

Total of factors --- 100%

Total Ranking		Educational Adequacy	Operating Costs	Enrollment - Current/Proj.	Environment	Alternative Use	Modernization Potential	Capacity	Traffic and Safety
JR. HIGH SCHOOLS	Poss. Score 100.0	Possible Score 20.0	Possible Score 20.0	Possible Score 20.0	Possible Score 10.0	Possible Score 10.0	Possible Score 8.0	Possible Score 8.0	Possible Score 4.0
DeVeaux	74.5	14.0	12.4	15.0	8.8	6.0	6.8	8.0	3.5
Byrnedale	74.0	18.0	11.6	10.0	8.5	8.5	6.4	8.0	3.0
Old West End	72.3	20.0	7.6	10.0	7.1	8.9	7.2	8.0	3.5
Leverette	67.2	18.0	10.4	10.0	7.8	4.5	5.2	8.0	3.3
East Toledo	65.8	20.0	11.6	0.0	8.3	8.9	6.4	8.0	2.6
McTigue	60.2	20.0	10.4	0.0	7.7	6.7	4.6	8.0	2.8
Jones	59.4	18.0	10.4	0.0	8.1	8.5	4.0	8.0	2.4
Robinson	51.6	20.0	6.4	0.0	9.7	9.2	3.4	0.0	2.9

Educational Adequacy Alphabetical Listing - Total per cent - 20 Each factor worth 20% JR. HIGH SCHOOLS	TOTAL	Building location meets the educational needs of the students	Appropriate sanitary facilities, lighting, water supply and ventilation	Sufficient number of classrooms to meet programs	Adequate office space	Adequate facilities for P.E., health care, food service and library/media
Byrnedale	.20x90= 18.0	20	20	10	20	20
DeVeaux	.20x90= 18.0	20	20	10	20	20
East Toledo	.20x100= 20.0	20	20	20	20	20
Jones	.20x90= 18.0	20	20	20	10	20
Leverette	.20x90= 18.0	20	20	20	20	10
McTigue	.20x100= 20.0	20	20	20	20	20
Old West End	.20x100= 20.0	20	20	20	20	20
Robinson	.20x100= 20.0	20	20	20	20	20

Operation Costs, Alphabetical listing - Total per cent - 20 Total factor - 100% JR. HIGH SCHOOLS	TOTAL	Overhead per student including building support personnel, utilities and expendable supplies relating to support services Average Cost = $204.45	Overhead per square foot including support costs Average Cost $1.80	Utility factor relating to type and availability of fuel used to heat/cool building
Byrnedale	.20x58= 11.6	30	20	8
DeVeaux	.20x62= 12.4	30	20	12
East Toledo	.20x58= 11.6	30	20	8
Jones	.20x52= 10.4	10	30	12
Leverette	.20x52= 10.4	20	20	12
McTigue	.20x52= 10.4	20	20	12
Old West End	.20x38= 7.6	20	10	8
Robinson	.20x32= 6.4	0	20	12

NOTE ON THE SCORING — MORE THAN 25% ABOVE AVERAGE COST = 0 — WITHIN 10-25% ABOVE AVERAGE COST = 10 — ± 10% OF AVERAGE COST = 10 — WITHIN 10-25% BELOW AVERAGE COST = 30 — MORE THAN 25% BELOW AVERAGE COST = 40

Enrollment-Current/Projected Alphabetical Listing Each factor worth 20%		Present Enrollment to capacity 90 - 100% of capacity = 50 70 - 89% of capacity = 25 below 70% of capacity = 0	Projected 3 year enrollment to capacity 90 - 100% of capacity = 50 70 - 89% of capacity = 25 below 70% of capacity = 0
JR. HIGH SCHOOLS	TOTAL		
Byrnedale	.20x50= 10.0	25	25
DeVeaux	.20x75= 15.0	25	50
East Toledo	.20x0= 0.0	0	0
Jones	.20x0= 0.0	0	0
Leverette	.20x50= 10.0	25	25
McTigue	.20x0= 0.0	0	0
Old West End	.20x50= 10.0	25	25
Robinson	.20x0= 0.0	0	0

Environmental Impact Alphabetical Listing Total per cent - 10 JR. HIGH SCHOOLS	TOTAL	Noise Pollution Poor - 0 Average - 8 Good -15	Open Space Poor - 5 Average-10 Good -20	Exterior Lighting Poor - 5 Average- 7 Good -10	Site Security Poor - 5 Average - 7 Good -10	Condition of Adjacent Properties Poor - 0 Average - 8 Good -20	Flooding Poor - 0 Average- 5 Good -10	Play Area Poor - 5 Average -10 Good -15
Byrnedale	.10x85= 8.5	8	20	10	7	20	10	10
DeVeaux	.10x88= 8.8	8	20	10	5	20	10	15
East Toledo	.10x83= 8.3	8	20	10	10	20	10	5
Jones	.10x81= 8.1	8	20	10	10	8	10	15
Leverette	.10x78= 7.8	8	10	5	10	20	10	15
McTigue	.10x77= 7.7	8	20	7	7	20	5	10
Old West End	.10x71= 7.1	8	10	10	10	8	10	15
Robinson	.10x97= 9.7	15	20	10	7	20	10	15

Alternative Uses Alphabetical Listing Total per cent - 10		Expressed Interest High - 0 Moderate -20 Low -35	Zoning Possibility of Rezoning Good -10 Fair -25 Poor -50	Location - Access to Transportation Good -0 Moderate -3 Poor -7	Location - General Consideration Good -0 Moderate -4 Poor -8
JR. HIGH SCHOOLS	TOTAL				
Byrnedale	.10x85= 8.5	35	50	0	0
DeVeaux	.10x60= 6.0	35	25	0	0
East Toledo	.10x89= 8.9	35	50	0	4
Jones	.10x85= 8.5	35	50	0	0
Leverette	.10x45= 4.5	35	10	0	0
McTigue	.10x71= 7.1	35	25	3	4
Old West End	.10x89= 8.9	35	50	0	4
Robinson	.10x100= 10.0	35	50	7	8

Modernization Potential Alphabetical Listing Total per cent - 8 JR. HIGH SCHOOLS	TOTAL	Age of Structure Poor - 0 Average - 5 Good -10	General Condition of Structure Poor - 0 Average -10 Good -20	Usage of Structure Poor - 0 Average - 5 Good -10	Renovation Complexity Poor - 0 Average-10 Good -20	Code Compliance Poor - 0 Average -13 Good -25	Access for Handicapped Poor - 0 Average -10 Good -15
Byrnedale	.08x80= 6.4	10	20	10	0	25	15
DeVeaux	.08x85= 6.8	5	20	10	10	25	15
East Toledo	.08x80= 6.4	10	20	10	0	25	15
Jones	.08x55= 4.0	5	10	5	10	25	0
Leverette	.08x65= 5.2	5	20	5	10	25	0
McTigue	.08x63= 5.0	5	10	10	10	13	15
Old West End	.08x90= 7.2	10	20	10	10	25	15
Robinson	.08x43= 3.4	5	10	5	10	13	0

Capacity Alphabetical Listing Total per cent - 8		At or above capacity - 8% Capacity for a junior high school = 500 students considered minimum	Below capacity - 0%
JR. HIGH SCHOOLS	TOTAL		
Byrnedale	8	8	
DeVeaux	8	8	
East Toledo	8	8	
Jones	8	8	
Leverette	8	8	
McTigue	8	8	
Old West End	8	8	
Robinson	0		0

Traffic and Safety Alphabetical Listing Total per cent - 4		Traffic Density	Traffic Patterns	Traffic Controls	Sidewalks	Parking	Other Hazards
		Good -12 Avg. - 6 Poor - 0	Good - 6 Avg. - 3 Poor - 0	Good -12 Avg. - 6 Poor - 0	Good -12 Avg. - 6 Poor - 0	Good -12 Avg. - 6 Poor - 0	Good - 6 Avg. - 3 Poor - 0
JR. HIGH SCHOOLS	TOTAL						
Byrnedale	.04x76= 3.0	0	0	6	12	12	6
DeVeaux	.04x88= 3.5	0	6	12	12	12	6
East Toledo	.04x67= 2.6	6	3	6	6	6	0
Jones	.04x61= 2.4	0	3	12	12	6	3
Leverette	.04x83= 3.3	0	6	12	12	12	6
McTigue	.04x59= 2.3	6	3	0	0	12	3
Old West End	.04x88= 3.5	0	6	12	12	12	6
Robinson	.04x74= 2.9	12	3	6	12	0	6

	Fire Alarm	Ingress/ Egress	Structural Hazards	Code Compliance
	Good -12 Avg. - 6 Poor - 0	Good -10 Avg. - 5 Poor - 0	Good - 8 Avg. - 4 Poor - 0	Good -10 Avg. - 5 Poor - 0
Byrnedale	12	10	8	10
DeVeaux	12	10	8	10
East Toledo	12	10	8	10
Jones	6	5	4	10
Leverette	12	5	8	10
McTigue	12	5	8	10
Old West End	12	10	8	10
Robinson	12	10	3	5

JUNIOR HIGH SCHOOL OPERATING COST PER STUDENT

25% + Below Average	10 - 25% Below Average	± 10% Average
$0.00 - $153.34	$153.34 - $184.00	$184.00 - $224.90
No. of Schools - (0)	No. of Schools - (3)	No. of Schools - (3)

10 - 25% Above Average	25% + Above Average
$224.90 - $255.56	$255.56 - $483.66
No. of Schools - (1)	No. of Schools - (1)

1.	DeVeaux	$154.09
2.	East Toledo	160.07
3.	Byrnedale	174.86
4.	Leverette	186.68
5.	Old West End	214.28
6.	McTigue	214.28
7.	Jones	233.64
8.	Robinson	483.66

AVERAGE	$204.45

JUNIOR HIGH SCHOOL OPERATING COST PER SQUARE FOOT

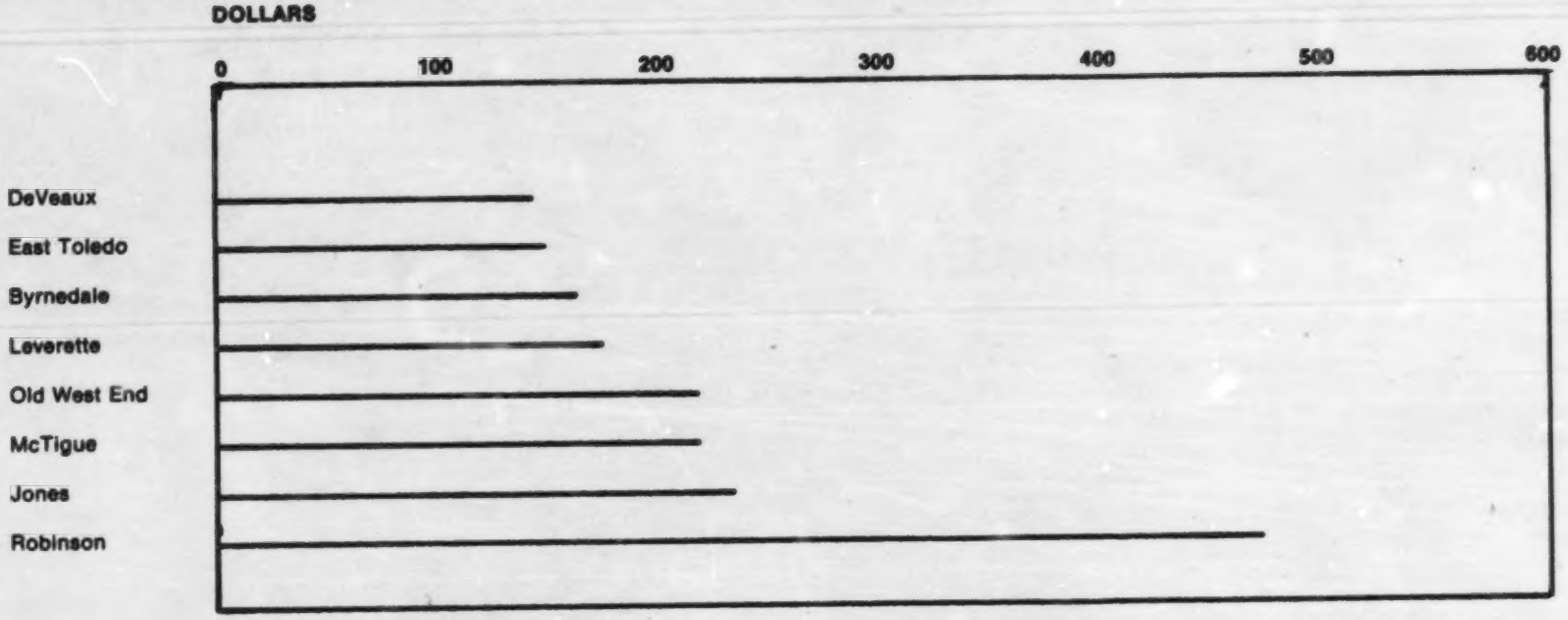
25% + Below Average	10 - 25% Below Average	± 10% Average
$0.00 - $1.35	$1.35 - $1.62	$1.62 - $1.98
No. of Schools - (0)	No. of Schools - (1)	No. of Schools - (6)

10 - 25% Above Average	25% + Above Average
$1.98 - $2.25	$2.25 - Above
No. of Schools - (1)	No. of Schools - (0)

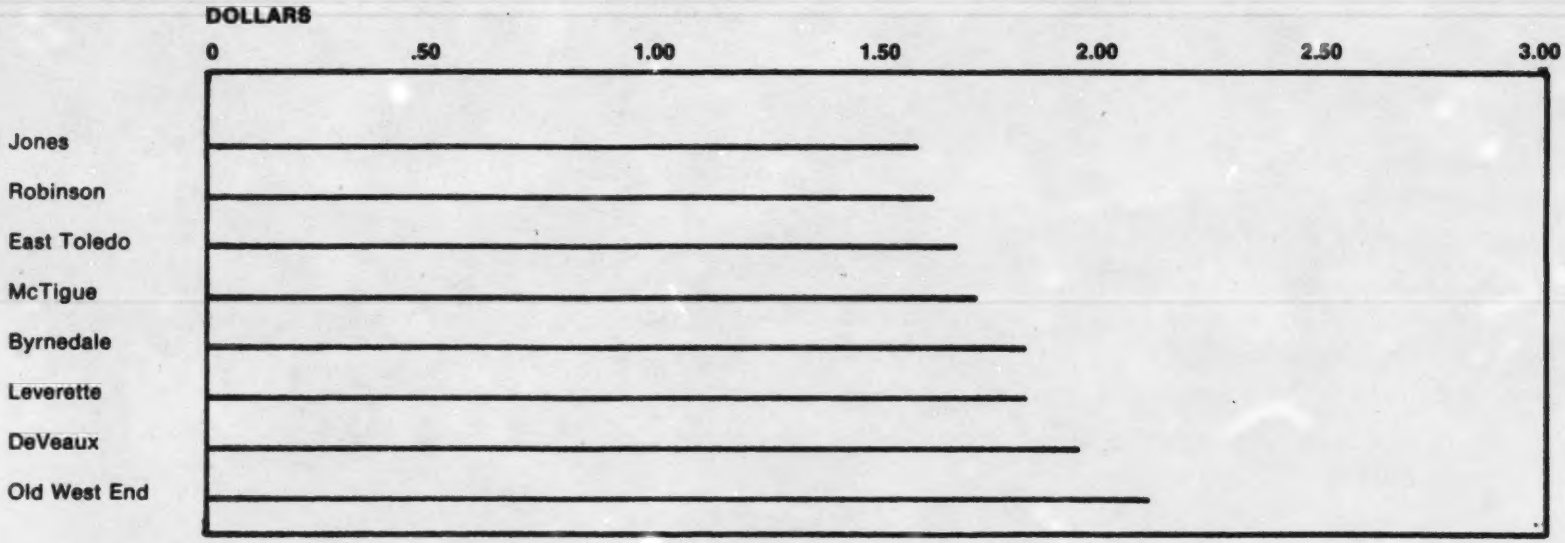
1.	Jones	$1.61
2.	Robinson	1.64
3.	East Toledo	1.73
4.	McTigue	1.75
5.	Byrnedale	1.86
6.	Leverette	1.86
7.	DeVeaux	1.93
8.	Old West End	2.18

AVERAGE	$1.80

JUNIOR HIGH OPERATING COST PER STUDENT



JUNIOR HIGH OPERATING COST PER SQUARE FOOT



Total Ranking		Educational Adequacy	Operating Costs	Enrollment - Current/Proj.	Environment	Alternative Use	Modernization Potential	Capacity	Traffic and Safety
HIGH SCHOOLS	Poss. Score 100.0	Possible Score 20.0	Possible Score 20.0	Possible Score 20.0	Possible Score 10.0	Possible Score 10.0	Possible Score 8.0	Possible Score 8.0	Possible Score 4.0
Bowsher	72.1	16.0	14.4	10.0	8.5	8.5	3.4	8.0	3.3
Rogers	67.8	18.0	18.0	0.0	9.5	6.7	5.4	8.0	2.2
Waite	66.1	20.0	10.0	5.0	8.8	8.5	3.4	8.0	2.4
Start	64.6	20.0	10.0	0.0	9.5	8.5	6.2	8.0	2.4
Woodward	61.5	16.0	8.4	5.0	8.5	8.5	3.8	8.0	3.3
Macomber-Whitney	52.9	20.0	12.4	0.0	3.2	3.0	3.8	8.0	2.5
DeVilbiss	52.2	20.0	6.0	0.0	9.7	8.5	4.6	0.0	3.4
Jefferson	52.0	20.0	10.4	0.0	6.8	8.5	3.4	0.0	2.9
Libbey	51.3	20.0	6.0	0.0	5.3	6.0	3.4	8.0	2.6
Scott	46.6	18.0	2.0	0.0	5.5	8.5	2.2	8.0	2.4

Educational Adequacy Alphabetical Listing - Total per cent - 20 Each factor worth 20%		Building location meets the educational needs of the students	Appropriate sanitary facilities, lighting, water supply and ventilation	Sufficient number of classrooms to meet programs	Adequate office space	Adequate facilities for P.E., health care, food service and library/media
HIGH SCHOOLS	TOTAL					
Bowsher	.20x80= 16.0	20	20	20	10	10
DeWilbiss	.20x100= 20.0	20	20	20	20	20
Jefferson Center	.20x100= 20.0	20	20	20	20	20
Libbey	.20x100= 20.0	20	20	20	20	20
Macomber-Whitney	.20x100= 20.0	20	20	20	20	20
Rogers	.20x90= 18.0	20	20	20	20	10
Scott	.20x90= 18.0	20	20	20	20	10
Start	.20x100= 20.0	20	20	20	20	20
Waite	.20x100= 20.0	20	20	20	20	20
Woodward	.20x80= 16.0	20	20	20	20	0

Operation Costs, Alphabetical listing - Total per cent - 20 Total factor - 100%		Overhead per student including building support personnel, utilities and expendable supplies relating to support services	Overhead per square foot including support costs	Utility factor relating to type and availability of fuel used to heat/cool building
HIGH SCHOOLS	TOTAL	Average Cost = $325.10	Average Cost = $1.82	
Bowsher	.20x72= 14.4	40	20	12
DeVilbiss	.20x30= 6.0	0	20	10
Jefferson Center	.20x52= 10.4	10	30	12
Libbey	.20x30= 6.0	0	20	10
Macomber-Whitney	.20x62= 12.4	20	30	12
Rogers	.20x90= 18.0	40	30	20
Scott	.20x10= 2.0	0	0	10
Start	.20x50= 10.0	20	20	10
Waite	.20x50= 10.0	20	20	10
Woodward	.20x42= 8.4	20	20	2

NOTE ON THE SCORING	MORE THAN 25% ABOVE AVERAGE COST = 0	WITHIN 10-25% ABOVE AVERAGE COST = 10	± 10% OF AVERAGE COST = 10	WITHIN 10-25% BELOW AVERAGE COST = 30	MORE THAN 25% BELOW AVERAGE COST = 40

Enrollment-Current/Projected Alphabetical Listing Each factor worth 20%		Present Enrollment to capacity 90 - 100% of capacity = 50 70 - 89% of capacity = 25 below 70% of capacity = 0	Projected 3 year enrollment to capacity 90 - 100% of capacity = 50 70 - 89% of capacity = 25 below 70% of capacity = 0
HIGH SCHOOLS	TOTAL		
Bowsher	.20x50= 10.0	25	25
DeVilbiss	.20x0= 0.0	0	0
Jefferson Center	.20x0= 0.0	0	0
Libbey	.20x0= 0.0	0	0
Macomber-Whitney	.20x0= 0.0	0	0
Rogers	.20x0= 0.0	0	0
Scott	.20x0= 0.0	0	0
Start	.20x0= 0.0	0	0
Waite	.20x25= 5.0	25	0
Woodward	.20x25= 5.0	25	0

Environmental Impact Alphabetical Listing Total per cent - 10		Noise Pollution	Open Space	Exterior Lighting	Site Security	Condition of Adjacent Properties	Flooding	Play Area
		Poor - 0 Average - 8 Good -15	Poor - 5 Average-10 Good -20	Poor - 5 Average- 7 Good -10	Poor - 5 Average - 7 Good -10	Poor - 0 Average - 8 Good -20	Poor - 0 Average- 5 Good -10	Poor - 5 Average -10 Good -15
HIGH SCHOOLS	TOTAL							
Bowsher	.10x78= 7.8	8	10	10	10	20	5	15
DeVilbiss	.10x97= 9.7	15	20	10	7	20	10	15
Jefferson Center	.10x68= 6.8	8	5	10	10	20	10	5
Libbey	.10x53= 5.3	8	10	10	7	8	5	5
Macomber-Whitney	.10x32= 3.2	0	5	5	7	0	10	5
Rogers	.10x95= 9.5	15	20	10	5	20	10	15
Scott	.10x55= 5.5	8	10	10	7	0	10	10
Start	.10x95= 9.5	15	20	10	5	20	10	15
Waite	.10x88= 8.8	8	20	10	10	20	10	10
Woodward	.10x85= 8.5	15	20	10	5	20	10	5

Alternative Uses Alphabetical Listing Total per cent - 10 HIGH SCHOOLS	TOTAL	Expressed Interest High - 0 Moderate -20 Low -35	Zoning/Possibility of Rezoning Good -10 Fair -25 Poor -50	Location - Access to Transportation Good -0 Moderate -3 Poor -7	Location - General Consideration Good -0 Moderate -4 Poor -8
Bowsher	.10x85= 8.5	35	50	0	0
DeVilbiss	.10x85= 8.5	35	50	0	0
Jefferson Center	.10x85= 8.5	35	50	0	0
Libbey	.10x60= 6.0	35	25	0	0
Macomber-Whitney	.10x30= 3.0	20	10	0	0
Rogers	.10x67= 6.7	35	25	3	4
Scott	.10x85= 8.5	35	50	0	0
Start	.10x85= 8.5	35	50	0	0
Waite	.10x85= 8.5	35	50	0	0
Woodward	.10x85= 8.5	35	50	0	0

Modernization Potential Alphabetical Listing Total per cent - 8		Age of Structure Poor - 0 Average - 5 Good -10	General Condition of Structure Poor - 0 Average -10 Good -20	Usage of Structure Poor - 0 Average - 5 Good -10	Renovation Complexity Poor - 0 Average-10 Good -20	Code Compliance Poor - 0 Average -13 Good -25	Access for Handicapped Poor - 0 Average -10 Good -15
HIGH SCHOOLS	TOTAL						
Bowsher	.08x43= 3.4	10	10	10	0	13	0
DeVilbiss	.08x58= 4.6	5	10	5	10	13	15
Jefferson Center	.08x43= 3.4	0	10	5	0	13	15
Libbey	.08x43= 3.4	5	10	5	10	13	0
Macomber-Whitney	.08x48= 3.8	5	10	10	10	13	0
Rogers	.08x68= 5.4	10	10	10	10	13	15
Scott	.08x28= 2.2	0	10	5	0	13	0
Start	.08x78= 6.2	10	10	10	20	13	15
Waite	.08x43= 3.4	0	20	10	0	13	0
Woodward	.08x48= 3.8	5	10	10	10	13	0

Capacity Alphabetical Listing Total per cent - 8		At or above capacity - 8% Capacity for a high school - 1200 students considered minimum	Below capacity - 0%
HIGH SCHOOLS	TOTAL		
Bowsher	8	8	
DeVilbiss	0		0
Jefferson Center	0		0
Libbey	8	8	
Macomber-Whitney	8	8	
Rogers	8	8	
Scott	8	8	
Start	8	8	
Waite	8	8	
Woodward	8	8	

Traffic and Safety Alphabetical Listing Total per cent - 4		Traffic Density	Traffic Patterns	Traffic Controls	Sidewalks	Parking	Other Hazards
		Good -12 Avg. - 6 Poor - 0	Good - 6 Avg. - 3 Poor - 0	Good -12 Avg. - 6 Poor - 0	Good -12 Avg. - 6 Poor - 0	Good -12 Avg. - 6 Poor - 0	Good - 6 Avg. - 3 Poor - 0
HIGH SCHOOLS	TOTAL						
Bowsher	.04x83= 3.3	6	6	12	12	12	0
DeVilbiss	.04x86= 3.4	6	6	12	12	12	3
Jefferson Center	.04x73= 2.9	0	6	12	12	6	6
Libbey	.04x65= 2.6	6	3	6	12	12	0
Macomber-Whitney	.04x64= 2.5	0	6	6	12	6	3
Rogers	.04x55= 2.2	6	0	0	0	12	6
Scott	.04x60= 2.4	6	6	6	12	0	6
Start	.04x62= 2.4	6	3	6	6	6	0
Waite	.04x62= 2.4	6	0	0	12	12	6
Woodward	.04x83= 3.3	12	3	12	12	12	6

Fire Alarm	Ingress/ Egress	Structural Hazards	Code Compliance
Good -12 Avg. - 6 Poor - 0	Good -10 Avg. - 5 Poor - 0	Good - 8 Avg. - 4 Poor - 0	Good -10 Avg. - 5 Poor - 0
12	10	8	5
12	10	8	5
12	10	4	5
12	5	4	5
12	10	4	5
12	10	4	5
6	5	8	5
12	10	8	5
12	5	4	5
12	5	4	5

HIGH SCHOOL OPERATING COST PER STUDENT

25% + Below Average	10 - 25% Below Average	± 10% Average
$0.00 - $243.82	$243.82 - $292.59	$292.59 - $357.61
No. of Schools - (2)	No. of Schools - (0)	No. of Schools - (4)

10 - 25% Above Average	25% + Above Average
$357.61 - $406.38	$406.38 - $459.93
No. of Schools - (1)	No. of Schools - (3)

1.	Bowsher	$194.43
2.	Rogers	236.87
3.	Waite	301.01
4.	Start	317.08
5.	Woodward	322.33
6.	Macomber-Whitney	332.33
7.	Jefferson Center	388.61
8.	Libbey	422.23
9.	DeVilbiss	427.48
10.	Scott	459.94

AVERAGE	$325.10

MACOMBER-WHITNEY RANK SEPARATELY

Macomber	$373.05
Whitney	242.17

HIGH SCHOOL OPERATING COST PER SQUARE FOOT

25% + Below Average	10 - 25% Below Average	± 10% Average
$0.00 - $1.36	$1.36 - $1.64	$1.64 - $2.00
No. of Schools - (0)	No. of Schools - (3)	No. of Schools - (6)

10 - 25% Above Average	25% + Above Average
$2.00 - $2.28	$2.28 - Above
No. of Schools - (0)	No. of Schools - (1)

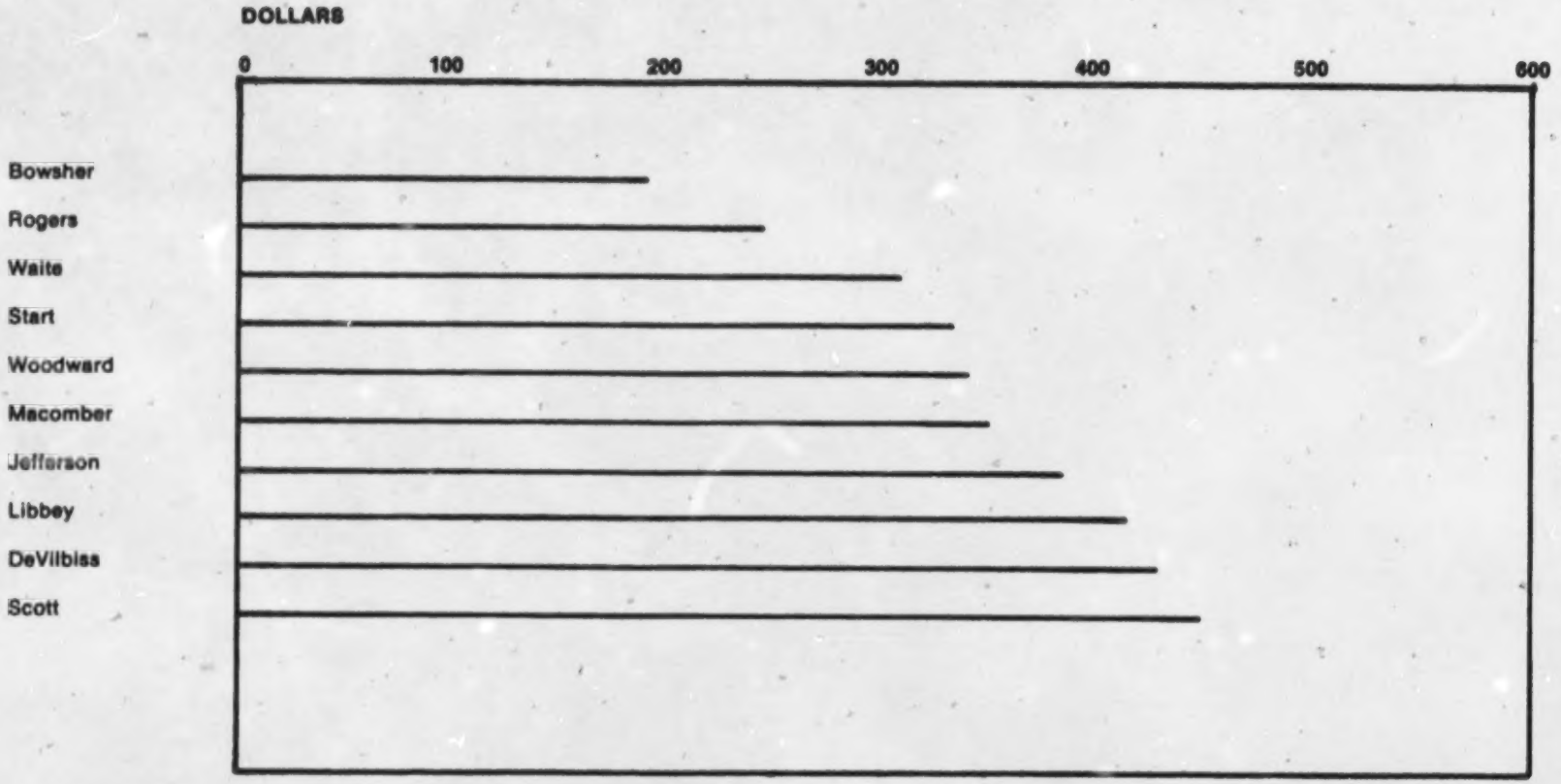
1.	Rogers	$1.39
2.	Jefferson Center	1.40
3.	Macomber-Whitney	1.55
4.	Bowsher	1.67
5.	Libbey	1.73
6.	Woodward	1.87
7.	Waite	1.90
8.	Start	1.94
9.	DeVilbiss	1.98
10.	Scott	2.66

AVERAGE	$1.82

MACOMBER-WHITNEY RANK SEPARATELY

Macomber	$1.55
Whitney	1.55

SENIOR HIGH SCHOOL OPERATING COST PER STUDENT



SENIOR HIGH SCHOOL OPERATING COST PER SQUARE FOOT